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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/765,320	01/27/2004	Manfred Fuchs	CQ10441	9408
23373 SUGHRUE MI	7590 07/06/200 ON, PLLC	EXAMINER		
2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			RAMIREZ, JOHN FERNANDO	
			ART UNIT	PAPER NUMBER
,			3737	
			MAIL DATE	DELIVERY MODE
			07/06/2009	PAPER

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/765,320	FUCHS ET AL.
Office Action Summary	Examiner	Art Unit
	JOHN F. RAMIREZ	3737
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING ID.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statul Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be tind the will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>04//2</u> This action is <b>FINAL</b> . 2b) ☑ This action is application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pr	
Disposition of Claims		
4) Claim(s) 16-20 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 16-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers  9) The specification is objected to by the Examin	awn from consideration. or election requirement. er.	Evaminor
10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	e drawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat*  * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4)  Interview Summary Paper No(s)/Mail D 5)  Notice of Informal I 6)  Other:	ate

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#### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 04/22/09 has been entered.

#### Response to Arguments

Applicant's arguments, see remarks, filed 04/22/09, with respect to the 101 and 112 first paragraph rejections have been fully considered and are persuasive.

Therefore, the rejections have been withdrawn.

With respect to the 102 rejection, applicant's arguments in light of the new amendment to claim 20 have been carefully considered and are persuasive.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claims 16-20 are rejected under 35 U.S.C. 102(b) as being anticipated by non-patent literature Fuchs M. et al. "Improving source reconstructions by combining bioelectric and biomagnetic data".

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Fuchs M. et al., teach a method of evaluation comprising: acquiring an electromagnetic physiological EEG/MEG signal with a sensor on a subject (see abstract);

performing a source reconstruction of the electromagnetic physiological signal via a signal processing circuit in communication with said sensor (see introduction), with said circuit including a computer system, with a processor and a memory (see BEM model setup section), the computer system (see workstation and fig. 10 as an example), being configured to support multiple parallel threads of execution with one thread being a measurement module (SEP/SEF; see Evoked somatosensory field examinations section; see simulations) and a second thread being a source reconstruction module (BME model);

feeding source reconstruction data through a feedback loop to the measurement module to modify the analysis of a new electromagnetic physiological signal (see introduction and methods section; SEP/SEF measurement verification); and displaying source reconstruction results overlayed onto anatomical data of said patient (see abstract and figs. 10-13).

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 18-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fuchs M. et al. "Improving source reconstructions by combining bioelectric and biomagnetic data".

Fuchs M. et al. substantially discloses all the subject matter as applied to claim 20 above. However, Fuchs M. et al. does not explicitly disclose that the sensors acquire ECG or MCG signals. Fuchs M. et al. disclose the use of electrophysiological signals such as EEG and MEG. Therefore, it would have been obvious to a person skilled in the art at the time the invention was made to use ECG and MCG signals in order to enhance the capabilities of the method to analyze cardiac physiological parameters.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOHN F. RAMIREZ whose telephone number is (571)272-8685. The examiner can normally be reached on (Mon-Fri) 7:00 - 3:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian L. Casler can be reached on (571) 272-4956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. F. R./ Examiner, Art Unit 3737

/Long V Le/ Supervisory Patent Examiner, Art Unit 3768